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Moskovich

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(54) **WIDE FIELD OF VIEW PROJECTION
LENSES FOR COMPACT PROJECTION
LENS SYSTEMS EMPLOYING PIXELIZED
PANELS**

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(52) U.S. Cl. **359/651; 359/716; 359/717;
359/649**

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(57) **ABSTRACT**

A projection lens for use with LCD panels is provided. The lens has a first lens unit which includes a strong negative lens element having an aspherical surface which provides distortion correction, and a second lens unit which includes a first lens subunit separated by an airspace from a second lens subunit, wherein the first lens subunit has a strong positive power and the second lens subunit has a weaker power. The second lens subunit can include a negative lens element, followed by a positive lens element, followed by a plastic lens element having an aspherical surface. The projection lens has a field of view of at least 35° so that the overall projection lens system has a compact size.

16 Claims, 6 Drawing Sheets

